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**GB**

**NATIONAL STANDARD**  
**OF THE PEOPLE'S REPUBLIC OF CHINA**  
中华人民共和国国家标准

**P**

**GB/T 14383-2008**

**Replace GB/T 14383-1993, GB/T 14626-1993**

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**Forged Fittings, Socket-welding and Threaded**

**锻制承插焊和螺纹管件**

**Issued on May 07, 2008**

**Implemented on November 01, 2008**

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**Jointly issued by**      **the General Administration of Quality Supervision,  
Inspection and Quarantine of the People's Republic of  
China and the Standardization Administration of the  
People's Republic of China**

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## Foreword

This standard revises and adopts ASME B 16.11: 2005 "Forged fittings, socket-welding and threaded" (English edition).

This standard is redrafted according to ASME B16.11: 2005. As a matter of convenience of comparison, comparison summary list of clauses of this standard to those in ASME B16.11: 2005 is listed in informative Annex A.

According to development condition and application and manufacture condition of product of industrial pipes used in China, this standard adopts and revises ASME B16.11: 2005. Technical differences and reasons are as follows:

——According to current situation of industrial pipe product standard in China, technical requirements and blank experiment content quoted by Relevant standards in ASME B16.11: 2005 are listed this standard;

——Except for original products of ASME B 16.11: 2005, 45°Socket Welding Tee of GB/T 14383-1993 is reserved;

In order to ensure installation, according to current national steel pipe external diameter deviation, this standard revises the dimension of socket bore, such as: DN 15 of the standard socket bore is 21.9, in ASME B16.11: 2005, it is 21.8; in DN 20 the standard socket bore is 27.3 and in ASME B16.11: 2005, it is 27.2;

——In nozzle external diameter, in consideration of some application of external diameters in series 8 of GB/T 14383- 1993, this kind of nozzle external diameter is reserved and treated as the non-recommended series II;

——In order to avoid product name confusion and for the convenience of electronic application of the procurement information, code numbers of each products are added;

——For the convenience of application, tables of pipe external diameter of pipe fittings connection and lining thickness are given in Annex B.

According to national requirements of standard preparation, the following editing revision is made, by comparing this standard with ASME B 16.11: 2005;

——The major technique is substantially agrees with ASME B 16.11, but the preparing format is different;

——Exceptional symbols in the figure is revised

This standard replace GB / T 14383 - 1993 "Forged steel socket welding pipe fittings" and GB/T 14626- 1993 "Forged steel threaded pipe fittings", with the development of industrial pipe technology and production practice, some clauses and parameters of these two standards are no longer be applicable.

The main changes of this standard comparing with GB/T 14383-1993, and GB/T 14626 - 1993 are as follows:

——Revised the dimension of socket bore;

——Adopt code number of class of pipe fittings identical with ASME B 16.11;

——Add clauses of ordering and alternative additional requirement;

——On types, add male and female threaded elbows and enlarge the specifications for pipe fittings;

——Revision of manufacture, thermal treatment, and test, mark and product quality certification is carried out.

This standard replaces GB/T 14383- 1993, GB/T 14626 - 1993 from the implementation date.

Annex A is informative and Annex B and Annex C are normative

This national standard was proposed by China Machinery Industry Federation.

This national standard is under the jurisdiction of National Technical Committee 236 on Sliding Bearing of Standardization Administration of China TC237.

This national standard was mainly drafted by Jiangsu Haida Pipe Fittings Co., Ltd. and Jiangyin Nanfang Pipe Fitting Making Co.,Ltd.

This standard was drafted by the participating organizations related to China Productivity Center for Machinery, JinTong Petrochemical Pipe Fittings Co., Ltd.,Yancheng Forged Pipe Fittings Co., Ltd.

This national standard was prepared by Guo Shun Xian, Li Junying, Li Zhihai, Yao Mingwen, Li Naiming, Huang Guohong, Li Jian, Yao Minghua, Li Jinxi, Wang Fenlan.

The previous editions of the standards replaced by this standard are as:

——GB/T 14383—1993;

——GB/T 14626—1993.

# Forged Fittings, Socket-welding and Threaded

## 1 Scope

This standard specifies requirements of order contents, dimension, material, manufacturing , inspection, test and mark for forged fittings, socket-welding and threaded.

This standard is applicable to the forged fittings, socket-welding and threaded that made of metallic material with a nominal dimension not be larger than DN 100.

## 2 Normative Reference

The following normative documents contain provision which, through reference in this text, constitute provisions of this national standard. For dated reference, subsequent amendments to, or revisions of, any of these publications do not apply. But the parties to agreements based on this standard are encouraged to investigate the possibility of applying the latest editions of the standards indicated below. For undated references, the latest edition of the normative document referred to applies.

GB/T 222 Permissible tolerances for chemical composition of steel products

GB/T 223 (All Parts) Methods for chemical analysis of iron steel and alloy

GB/T 228 Metallic materials-Tensile testing at ambient temperature (GB/T 228—2002, eqv ISO 6892:1998)

GB/T 229 Metallic materials—Charpy pendulum impact test method (GB/T 229—2007, ISO 148-1:2006, MOD)

GB/T 699 Quality carbon structural steels

GB/T 1591 High strength low alloy structural steels

GB/T 1220 Stainless steel bars

GB/T 1221 Heat-resistant steel bars

GB/T 2975 Steel and steel products-Location and preparation of test pieces for mechanical testing (GB/T 2975—1998, eqv ISO 377:1997)

GB/T 3077 Alloy structure steels

GB/T 4334 (All Parts) Stainless steel-Corrosion Testing Method

GB/T 4338 Metallic materials—Tensile testing at elevated temperature (GB/T 4338—2006, ISO 783:1999, MOD)

GB/T 6394 Metal-methods for estimating the average grain size

GB/T 10561-2005 Steel - Determination of Content of Nonmetallic Inclusions - Micrographic Method Using Standards Diagrams (ISO 4967:1998, IDT)

GB/T 12716 Pipe threadeds with the threaded angle of 60 degrees where pressure-tight



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